

AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated hereafter (where underlining “_” denotes additions and strikethrough “-” denotes deletions).

Claims:

1. (Original) A smoke detector comprising:
a smoke sensor sensing a smoke condition and outputting an alarm signal
upon detecting a smoke condition;
an alarm, connected to the smoke sensor, indicating a smoke condition
upon detection of the alarm signal; and
a communication device, connected to the smoke sensor, receiving the
alarm signal and wirelessly transmitting an indicator of the smoke condition in a
predetermined message format to a remote monitoring device upon detection of
the alarm signal, each communication device having an unique address.

2. (Original) The smoke detector of claim 1, wherein the smoke sensor is
a photodetection smoke sensor.

3. (Original) The smoke detector of claim 2, wherein the alarm is an
audible alarm.

4. (Original) The smoke detector of claim 3, wherein the predetermined message format comprises at least one packet, wherein the packet comprises:

a receiver address comprising a scalable address of the at least one of the intended receiving communication device;

a sender address comprising the address of the sending communication device;

a command indicator comprising a command code;

at least one data value comprising a scalable message; and

an error detector that is a redundancy check error detector.

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5. (Currently Amended) ~~The smoke detector of claim 4,~~ A smoke detector comprising:

a smoke sensor sensing a smoke condition and outputting an alarm signal upon detecting a smoke condition;

an alarm, connected to the smoke sensor, indicating a smoke condition upon detection of the alarm signal; and

a communication device, connected to the smoke sensor, receiving the alarm signal and wirelessly transmitting an indicator of the smoke condition in a predetermined message format to a remote monitoring device upon detection of the alarm signal, each communication device having an unique address;

wherein the smoke sensor is a photodetection smoke sensor;

wherein the alarm is an audible alarm;

wherein the predetermined message format comprises at least one packet, wherein the packet comprises:

a receiver address comprising a scalable address of the at least one of the intended receiving communication device;

a sender address comprising the address of the sending communication device;

a command indicator comprising a command code;

at least one data value comprising a scalable message; and

an error detector that is a redundancy check error detector;

wherein the packet further comprises:

a packet length indicator which indicates a total number of bytes in the current packet;

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a total packet indicator which indicates the total number of packets in the current message;

a current packet indicator which indicates which packet of the total packets the current packet is; and

a message number, wherein the controller generates a sender message in the preformatted command message and the transceiver generate a response message number formed by a mathematical combination of the sender message number and a predetermined offset.

6. (Original) The smoke detector of claim 5, wherein the packet further comprises:

a preface and a postscript;

wherein the preface comprises a predetermined sequence comprising a first logic level and a subsequent sequence comprising at least two bytes of a second logic level; and wherein the postscript comprises a low voltage output.

7. (Original) The smoke detector of claim 6, wherein the wireless communication comprises radio frequency (RF) communication.

8. (Original) The smoke detector of claim 7, wherein the wireless communication comprises a low powered RF communication.

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9. (Original) The smoke detector of claim 8, wherein the message comprises Manchester encoding.

Claims 10-65 (Canceled).

✓ 66. (New) The smoke detector of claim 1, wherein the alarm signal is transmitted using digital modulation. *See 11. 1 - 65, 1 - 12, 30*

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67. (New) The detection device of claim 66, wherein the predetermined message format comprises at least one packet, wherein the packet comprises:

a receiver address comprising a scalable address of the at least one of the intended receiving communication device;

a sender address comprising the address of the sending communication device;

a command indicator comprising a command code;

at least one data value comprising a scalable message; and

an error detector that is a redundancy check error detector.

68. (New) The detection device of claim 67, wherein the packet further comprises:
- a packet length indicator which indicates a total number of bytes in the current packet;
 - a total packet indicator which indicates the total number of packets in the current message;
 - a current packet indicator which indicates which packet of the total packets the current packet is; and
 - a message number, wherein the controller generates a sender message in the preformatted command message and the transceiver generate a response message number formed by a mathematical combination of the sender message number and a predetermined offset.

69. (New) The detection device of claim 67, wherein the packet further comprises:
- a preface and a postscript;
 - wherein the preface comprises a predetermined sequence comprising a first logic level and a subsequent sequence comprising at least two bytes of a second logic level; and
 - wherein the postscript comprises a low voltage output.

70. (New) The detection device of claim 66, wherein the wireless communication
- comprises radio frequency (RF) communication.

71. (New) The detection device of claim 66, wherein the wireless communication comprises a low powered RF communication.

72. (New) The detection device of claim 66, wherein the digital modulation is encoded using at least one of the following protocols:

Manchester encoding;

Quadrature shift keying;

On-off keying; and

Amplitude shift keying.

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